



Smart eco charging station for electric vehicles

Designed for use in residential environments

zappi is a Mode 3 charging station, compatible with all electric vehicles that comply with SAE J1772, EN62196 and EN61851 plug-in electric vehicle standards.

zappi works like any regular charging point but has special eco charging modes which will benefit homeowners with grid-tied microgeneration systems, like wind or solar generation. Two special ECO charging modes automatically adjust charging current in response to on-site generation and household power consumption. In FAST charge mode, **zappi** operates like an ordinary EV charging station.



- Available with Type 1 or Type 2 connector
- 3 charging modes: ECO, ECO+ & FAST
- Optimises microgeneration self-consumption
- Works with solar PV or wind turbine systems
- Economy tariff sense input
- Programmable timer function
- Charge and event logging
- Remote control and monitoring add-on option
- Pin-code lock function
- Tap operated display backlight
- Built-in RCD protection
- Integral cable holster
- Supplied with clip-on grid current sensor

Performance

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|-----------------------------------|---|
| Mounting Location | Indoor or Outdoor (permanent mounting) |
| Charging Mode | Mode 3 (IEC 61851-1 compliant communication protocol) |
| Display | Graphical backlit LCD (shows charging status and data) |
| Charging Current | 6A to 32A (variable, limited to 7kW) |
| Grid Import Power Limiting | 2kW to 24kW (optional setting to limit power drawn from the grid) |
| Charging Profile | 3 charging modes: ECO, ECO+ and FAST |
| Connector Type | Type 1 or Type 2 tethered cable, 5m or 8m |
| Compliance | LVD 2014/35/EU, EMC 2014/30/EU, EN 61851-1 & 22, EN 62196, CE Certified |
| Warranty | 3 Years |

Designed to permit installations compliant with IET Wiring Regulations BS7671:2008+A3 2015, the IET Code of Practice for Electric Vehicle Charging Equipment Installation, BS EN 61851, the Electricity Safety, Quality, and Continuity Regulations 2002 and BS 8300:2009+A1:2010.



Charging Modes

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|------|--|
| ECO | Charge power is continuously adjusted in response to changes in generation or power consumption elsewhere in the home. Charging will continue until the vehicle is fully charged, even if power is drawn from the grid. |
| ECO+ | Charge power is continuously adjusted in response to changes in generation or power consumption elsewhere in the home. Charging will pause if there is too much imported power, continuing only when there is surplus free power available. |
| FAST | In this mode, the vehicle will be charged at maximum power. This is just like an ordinary Mode 3 charging point. |

Electrical Specifications

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|----------------------------|--|
| Rated Power | 7kW |
| Rated Supply Voltage | 230V AC Single Phase (+/- 10%) |
| Supply Frequency | 50Hz |
| Rated Current | 32A max |
| Standby Power Consumption | 1W |
| Earth Leakage Protection | Integral 30mA RCD (Type A) |
| Economy Tariff Sense Input | 230V AC sensing (2.5kV isolated) |
| Wireless Interface | 868 MHz (proprietary protocol) for wireless sensor and remote monitoring options |
| Grid Current Sensor | 100A max. primary current, 16mm max. cable diameter |
| Supply Cable Entry | Rear or bottom option |

Mechanical Specifications

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|-----------------------|---|
| Enclosure Dimensions | 362 x 220 x 78mm |
| Cord Length | 5m or 8m |
| Number of Outlets | 1 |
| Protection Degree | IP65 (weatherproof) |
| Enclosure Material | ABS 6 & 3mm (UL 94 flame retardant) colours: white RAL 9016 and grey RAL 9006 |
| Operating Temperature | -30°C to +50°C |
| Fixing Points | In-line vertical mounting holes |

Model Variations

| MODEL | Connector Type | Cable Length |
|-----------------|------------------|--------------|
| ZAPPI-32A1P1T05 | Type 1 (J1772) | 5m |
| ZAPPI-32A1P1T08 | Type 1 (J1772) | 8m |
| ZAPPI-32A1P2T05 | Type 2 (EN62196) | 5m |
| ZAPPI-32A1P2T08 | Type 2 (EN62196) | 8m |

Warranty: 3-year on-site parts and labour warranty. Installation must be in compliance with manufacturers installation instructions and all relevant local standards.

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